(9)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAAPURA

Name of Work: *Estimate for Improvements to Roads and Drains at Kalappa Layout, Subbanna Bedi, Venugopal swamy Temple and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.*

Estimated Cost: Rs: 70.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

8

Name of the work: **Estimate for Improvements to Roads and Drains at Kalappa Layout, Subbanna Bedi, Venugopal swamy Temple and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.**

			Estimate Cost:						7000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	Hanuman layout		1	220.00	1.00	1.00	220.00		
	Kalparuksha Layout		1	220.00	1.00	1.00	220.00		
	Muneshwara layout 4th Cross		2	100.00	1.00	1.00	200.00		
	Muneshwara layout 2nd Main		1	140.00	1.00	1.00	140.00		
	Kalappa Layout 1st Cross		2	95.00	0.60	0.50	57.00		
	Kalappa Layout 2nd Cross		2	90.00	0.60	0.50	54.00		
	Kalappa Layout 3rd Cross		2	98.00	0.45	0.45	39.69		
	Kalappa Layout 4th Cross		2	95.00	0.45	0.45	38.48		
	Kalappa Layout 5th Cross		2	99.00	0.45	0.45	40.10		
	Basic Rate	130.00					**1009.26**	243.88	**246138.00**
	Area Weightage @ 6%	7.80							
	Sub Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
	Total	**243.88**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.3 of PWD SR 2018-19**	Cum							
	Bottom Concrete								
	Hanuman layout		1	220.00	1.00	0.15	33.00		
	Kalparuksha Layout		1	220.00	1.00	0.15	33.00		
	Muneshwara layout 4th Cross		2	100.00	1.00	0.15	30.00		
	Muneshwara layout 2nd Main		1	140.00	1.00	0.15	21.00		
	Basic Rate	5102.00					**117.00**	5408.12	**632750.00**
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2018-19**	Cum							
	Bottom Concrete								
	Hanuman layout		1	220.00	0.90	0.15	29.70		
	Kalparuksha Layout		1	220.00	0.90	0.15	29.70		
	Muneshwara layout 4th Cross		2	100.00	0.90	0.15	27.00		
	Muneshwara layout 2nd Main		1	140.00	0.90	0.15	18.90		
	Side Wall								
	Hanuman layout		1x2	220.00	0.15	0.60	39.60		
	Kalparuksha Layout		1x2	220.00	0.15	0.60	39.60		
	Muneshwara layout 4th Cross		2x2	100.00	0.15	0.60	36.00		
	Muneshwara layout 2nd Main		1x2	140.00	0.15	0.60	25.20		
	Basic Rate	5444.00					**245.70**	5770.64	**1417846.00**
	Area Weightage @ 6%	326.64							
	Total	**5770.64**							
4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 18 / Item No. 4.46.2, PWD SR 2018-19**	Tonne							
	For RCC Drain @ 60 Kg / Cum		0.06	245.70			**14.74**	75223.96	**1108952.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	**75223.96**							
5	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.31 PWD SR 2018-19**	Sqm							
	Side Wall								
	Hanuman layout		1x4	220.00		0.60	528.00		
	Kalparuksha Layout		1x4	220.00		0.60	528.00		
	Muneshwara layout 4th Cross		2x4	100.00		0.90	720.00		
	Muneshwara layout 2nd Main		1x4	140.00		0.90	504.00		
	Basic Rate	358.00					**2280.00**	379.48	**865214.00**
	Area Weightage @ 6%	21.48							
	Total	**379.48**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	For Covering Slab								
	Hanuman layout		1	220.00		0.90	198.00		
	Kalparuksha Layout		1	220.00		0.90	198.00		
	Muneshwara layout 4th Cross		2	100.00		0.90	180.00		
	Muneshwara layout 2nd Main		1	140.00		0.90	126.00		
	Kalappa Layout 1st Cross		2	95.00		0.90	171.00		
	Kalappa Layout 2nd Cross		2	90.00		0.90	162.00		
	Kalappa Layout 3rd Cross		2	98.00		0.90	176.40		
	Kalappa Layout 4th Cross		2	95.00		0.90	171.00		
	Kalappa Layout 5th Cross		2	99.00		0.90	178.20		
	Basic Rate	700.00		717.00			**1560.60**	742.00	**1157965.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							
7	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 26 / Item No. 5.22, PWD SR 2018-19**	m							
			2830	3.00			**8490.00**	61.48	**521965.00**
	Basic Rate	58.00							
	Area Weightage @ 6%	3.48							
	Total	**61.48**							
8	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.6 PWD SR 2018-19**	Cum							
	Covering Slab Ramp								
	Hanuman layout		1	220.00	0.30	0.10	6.60		
	Kalparuksha Layout		1	220.00	0.30	0.10	6.60		
	Muneshwara layout 4th Cross		2	100.00	0.30	0.10	6.00		
	Muneshwara layout 2nd Main		1	140.00	0.30	0.10	4.20		
	Kalappa Layout 1st Cross		2	95.00	0.30	0.10	5.70		
	Kalappa Layout 2nd Cross		2	90.00	0.30	0.10	5.40		
	Kalappa Layout 3rd Cross		2	98.00	0.30	0.10	5.88		
	Kalappa Layout 4th Cross		2	95.00	0.30	0.10	5.70		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Kalappa Layout 5th Cross		2	99.00	0.30	0.10	5.94		
	Basic Rate	5422.00					**52.02**	5747.32	**298976.00**
	Area Weightage @ 6%	325.32							
	Total	**5747.32**							
	Sub Total								**6249806.00**
	GST 12%								**749977.00**
	Miscellaneous and other Charges	L/S							**217.00**
								Total	**7000000.00**
Rupees Seventy Lakh(s) Only									

5

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 This work included under Special Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Sunitha-N K
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 70.00 Seventy Lakhs only
Head of A/c. P3601 Special Development works
Div. Ref. No. 54/19-20 Date 24-10-2019
AE 24/10
EE(BTP) 24/10

Technical Sanction
Accorded For Rs 70 lakhs only
Head of A/C P.3601
CER NO : 95 Dt: 23-10-2019
TA
CE (YNK)

Name of work : Improvements to Roads and Drains at Kalappa Layout, Subbanna Bedi, Venugopal swamy Temple and Surrounding area in Ward No. 10, (Doddabommasandra), Vidyaranyapura Sub Division.

INDEX

Proposed Exisiting Drain Repair

Proposed RCC Drain

Suvetha-NK
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division